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Carbon nanotube encapsulated in nitrogen and phosphorus co-doped carbon as a bifunctional electrocatalyst for oxygen reduction and evolution reactions

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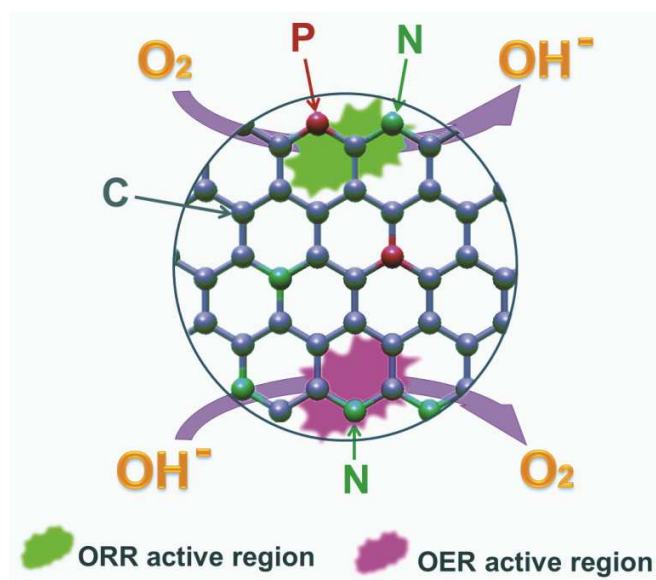
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Mutual promotion between N doping and P doping induces high activity for oxygen reduction reaction while N doping is identified as the primary active sites for oxygen evolution reaction, which endow N, P co-doped carbons with excellent oxygen electrode catalytic performance.

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